

S1 1 PN="DE 19546036"  
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# APPENDIX D

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DIALOG(R) File 351: Derwent WPI  
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011188998 \*\*Image available\*\*  
WPI Acc No: 1997-166923/ 199716

Cutting roller for sheet-material - comprises thin metal coating  
containing grooves on tubular body of composite fibrous material  
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Number of Countries: 003 Number of Patents: 004  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19546036	C1	19970320	DE 1046036	A	19951209	199716 B
GB 2307878	A	19970611	GB 9624360	A	19961122	199726
JP 9207095	A	19970812	JP 96317944	A	19961128	199742
GB 2307878	B	20000119	GB 9624360	A	19961122	200006

Priority Applications (No Type Date): DE 1046036 A 19951209  
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19546036	C1		4	B26D-001/00	
GB 2307878	A		9	B26D-007/20	
JP 9207095	A		3	B26D-001/24	
GB 2307878	B			B26D-007/20	

Abstract (Basic): DE 19546036 C

The roller is for a machine cutting wide strips of sheet material,  
and contains peripheral grooves (6) at right angles to the axis of  
rotation (4).

The grooves (6) are machined in a thin layer of metal (5),  
preferably less than 5mm. thick, and typically of nickel-coated  
aluminium. The body can be of carbon fibre and resin, onto which a thin  
layer of metal is hot-sprayed, the grooves being then machined in it.  
After machining, the metal surface can be nickel-coated in a chemical  
separation process, no external electric power supply being necessary.

ADVANTAGE - Light weight, small diameter, and can handle very side  
sheet strips.

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Derwent Class: P62

International Patent Class (Main): B26D-001/00; B26D-001/24; B26D-007/20

International Patent Class (Additional): B26D-001/22; B26D-007/08;

C23C-004/12; C23C-004/18

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